

**ENSERCH
EXPLORATION** INC.

7800 Stemmons Frwy.
Suite 500
Dallas, Texas 75247
214/630-8711

October 28, 1987

State of Utah
Division of Oil, Gas & Mining
3 Traid Center, Ste 350
Salt Lake City, UT 84180

RE: Request for Location Exception
Alkali Point State No. 1-16
1033' FNL & 1067' FEL (NE-NE)
Section 16, T38S-R24E
San Juan County, Utah
State Lease No. ML-40406

Dear Sirs:

Attached is the application for permit to drill for the captioned well. An administrative location exception is requested as the proposed drill site does not meet state wide spacing rules. The well was located in this way for several reasons. The generally rough terrain in the area and the existence of a power line made it impossible to locate the well legally. In addition, the prospect is based on seismic and this location falls along the predicted trend.

All offsetting property within a radius of 460 feet, specifically the NW-NE, SW-NE and SE-NE quarter - quarters, are controlled by E.P. Operating Company through the captioned State lease.

The granting of this request is greatly appreciated. If there are any questions or if additional information is required, please advise.

Very Truly Yours,



M.E. (Dusty) Kinchen
Senior Drilling Engineer

MEK/cw

RECEIVED
NOV 02 1987

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

NOV 02 1987

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.

✓State ML - 40406

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Alkali Point State

9. Well No.

1-16

10. Field and Pool, or Wildcat

Wildcat Hatch

11. Sec., T., R., M., or Blk. and Survey or Area

Section 16, T38S-R24E
S.L.B. & M

12. County or Parrish 13. State

San Juan, Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☒Gas Well ☐

Other

Single Zone ☒Multiple Zone ☐

2. Name of Operator

E.P. Operating Company

214/630-8711

3. Address of Operator

7800 Stemmons Frwy, Ste 500 Dallas, Tx 75247

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

1033' FNL & 1067' FEL (NE-NE)

At proposed prod. zone

Same

14. Distance in miles and direction from nearest town or post office*

19 miles SE of Blanding, Utah

15. Distance from proposed*

location to nearest property or lease line, ft.

1033'

(Also to nearest drlg. line, if any)

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

N/A

16. No. of acres in lease

640

17. No. of acres assigned to this well

40

19. Proposed depth

6350'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5420 GR

22. Approx. date work will start*

December 1, 1987

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	8-5/8"	24#	2200'	Circulate to Surface
7-7/8"	5-1/2"	17#	6350'	1000' of Fill - Top 5350'

PROPOSED OPERATIONS:

Drill a 12-1/4 inch hole to 2200 feet, run and cement 8-5/8 inch casing in place. Install an 8-5/8 inch x 11 inch x 3000 psi wellhead and nipple-up the rig BOP equipment. Test ram preventers and surface equipment to 3000 psi. Test annular preventer to 1500 psi. Test casing to 1000 psi prior to drilling out. Drill a 7-7/8 inch hole to 6350 feet, run drill stem test where shows dictate. Upon reaching T.D., run open hole radioactive and electric logs. If well proves productive run 5-1/2 inch casing to T.D. and cement in place. If well proves dry, plugs will be set per State of Utah instructions.

*See attached Drilling Program and Thirteen Point Surface Use Plan.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

M.E. Kinchen

Title

Senior Drilling Engineer

Date 10-27-87

(This space for Federal or State office use)

Permit No.

43-637-31361

Approval Date

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Approved by

Title

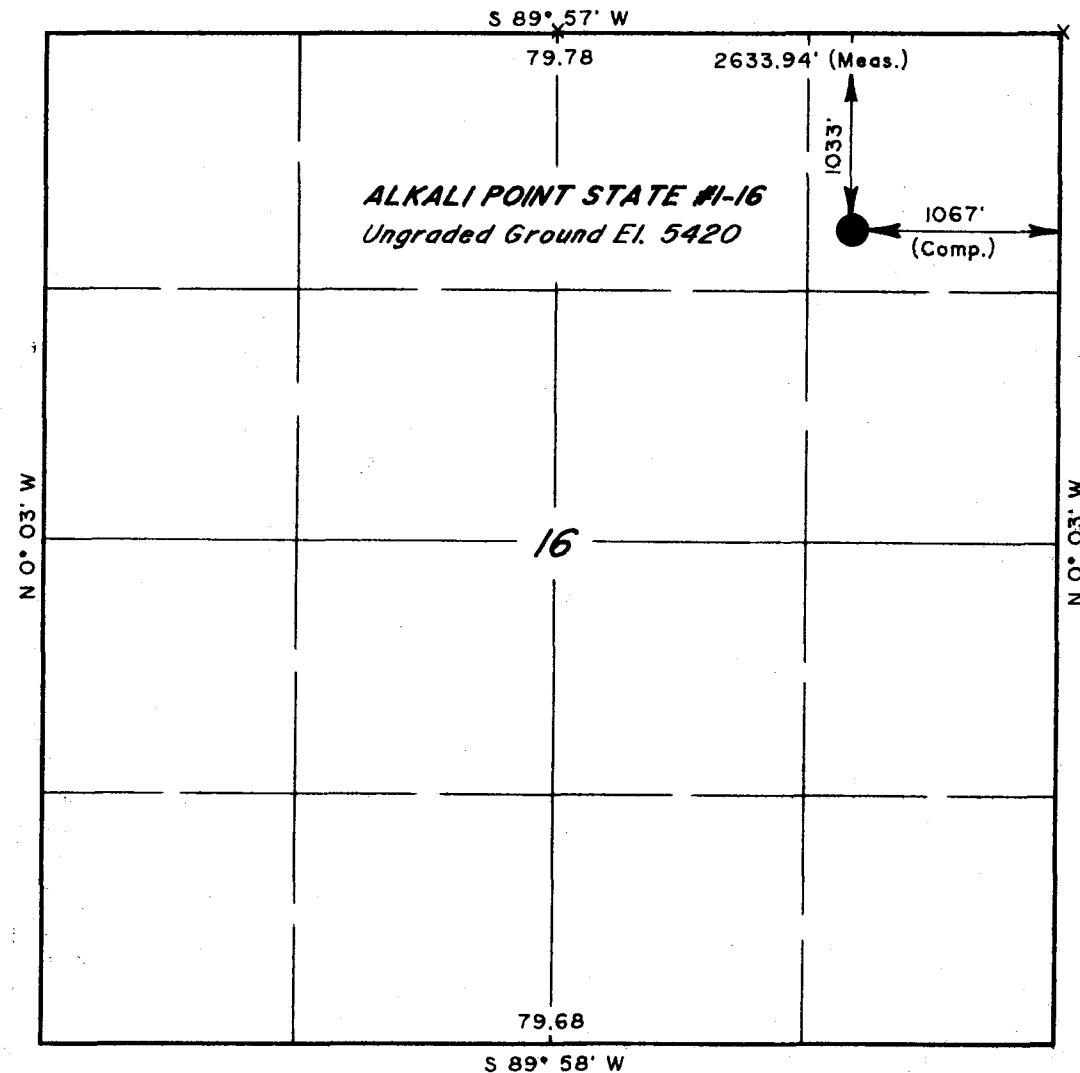
DATE: 11-6-87
BY: John R. Bays

Conditions of approval, if any:

WELL SPACING: 4615-3-3

*See Instructions On Reverse Side

T 38 S, R 24 E, S.L.B. & M.



X = Located Section Corners
Brass Caps

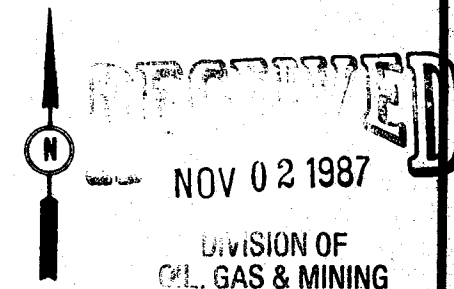
PROJECT

E.P. OPERATING CO.

WELL LOCATION, ALKALI POINT STATE #1-16,
LOCATED AS SHOWN IN THE NE $\frac{1}{4}$ NE $\frac{1}{4}$ OF
SECTION 16, T 38 S, R 24 E, S.L.B. & M., SAN
JUAN, COUNTY, UTAH.

BASIS OF ELEVATION

SPOT ELEVATION AT A DRY HOLE MARKER LOCATED IN THE
SE $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 9, T 38 S, R 24 E, S.L.B. & M., TAKEN
FROM THE MONTEZUMA CREEK 15 MINUTE TOPOGRAPHICAL
QUADRANGLE MAP, UTAH - SAN JUAN CO., PUBLISHED BY THE
U.S. DEPT. OF THE INTERIOR, GEOLOGICAL SURVEY IN 1962.
SAID ELEVATION IS MARKED AS BEING 5375..



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10-7-87
PARTY RK KH DLS	REFERENCES GLO
WEATHER FAIR	FILE EP OPERATING

LIST OF ATTACHMENTS

Conditions of Approval for Permit to Drill

- A. Drilling Program
- B. Thirteen Point Surface Use Plan

Minimum Blowout Preventer Requirements

Well Site Layout - Cuts and Fills

Topographic Maps - Directions to Location

RECEIVED
NOV 02 1987

DIVISION OF
OIL, GAS & MINING

A. Drilling Program

1. Surface Formation and Estimated Formation Tops:

<u>Formation Name</u>	<u>Estimated Top</u>
Morrison	Surface
Chinle	2,080'
Cutler	2,950'
Hermosa	4,950'
Ismay	5,930'
Desert Creek	6,170'
Akah	6,265'
Paradox Salt	6,280'

2. Expected Depth at Which Oil, Gas, Water or Other Mineral Bearing Zones are Expected to be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected Oil Zones:	Ismay	5930'
	Desert Creek	6170'

Expected Gas Zones: Gas could be produced from oil zones.

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

See Minimum Blowout Prevention Equipment - Exhibit "A"

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP equipment will be tested to full working pressure with the exception of the annular preventer which will be tested to 50%.

Working pressure of blowout prevention equipment will be a minimum 3000 psi.

4. Casing Program and Auxiliary Equipment:

CASING PROGRAM:

<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Condition</u>	<u>Depth</u>	<u>Cement Top</u>
8-5/8"	K55	24#	New	0' - 2200'	Surface
5-1/2"	K55	17#	New	0' - 6350'	1000' of fill (to 5350')

Anticipated cement tops will be reported as to depth, not the expected number of sacks. Casing will be tested to 0.2 psi/ft or 1000 psi, whichever is greater.

AUXILIARY EQUIPMENT

- A lower kelly cock will be kept in the string.
- A full opening safety valve will be kept on the floor to be stabbed into the drill pipe when the kelly is not in the string.
- A mud logging unit with gas detecting equipment will be used from 4500 feet to total depth to monitor the mud system.

5. Mud Program and Circulating Medium:

<u>Depth Interval</u>	<u>Mud Type</u>	<u>Mud Weight (ppg)</u>	<u>Viscosity (sec./qt)</u>	<u>Water Loss (cc)</u>
0' - 2200'	Fresh Water Gel/Lime	8.6 - 9.0	32 - 40	NC
2200' - 4500'	Fresh Water Gel/Lime	8.6 - 9.2	36 - 40	NC
4500' - 6350'	Fresh Water/ Salt Water	9.0 - 11.0	36 - 45	8 - 15

Adequate stocks of sorptive agents and weighting materials will be on-site to handle any anticipated down-hole problems as well as possible spills of fuel and oil on the surface.

6. Coring, Logging and Testing Program:

Coring: None

Testing: Drill stem tests are anticipated for the Ismay and Desert Creek and will be run as shows dictate.

Logging: DIL/GR/SP T.D. to base of surface casing
Sonic/GR/Cal T.D. to base of surface casing
CN/CD/GR/Cal T.D. to 4000'

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

Anticipated Bottom Hole Pressure: ± 2000 psi

There have been no major potential hazards or abnormal conditions reported on area wells. Water flows have been encountered on some wells but have been easily controlled by increasing mud weights with either salt (NaCl) or barite. Both agents will be maintained in stock on location.

8. Anticipated Starting Dates and Notifications of Operations:

Anticipate beginning operations as soon as APD is approved, wish to commence by December 1, 1987.

The duration of drilling operations will be approximately 20 days.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads: See attached map

- a. Proposed well is located 19.0 miles southeast of Blanding, Utah as shown on maps "A" and "B".
- b. Existing roads will be maintained in present condition.
- c. An encroachment permit will be obtained from the San Juan County Road Department.

2. Planned Access Roads: See attached map

No access road will be constructed as the location falls next to San Juan County Road 209.

3. Location of Existing Wells: 1 mile radius

Abandoned Wells -

- a. Well Name: Bug Canyon No. 1
Operator: H.K. Bartlett
Location: SE-SW Section 9, T38S-R24E
- b. Well Name: Cave Canyon No. 1
Operator: Mountain Fuel Supply
Location: SE-SW Section 10, T38s-R24E
- c. Well Name: Grayberg-State No. 1
Operator: Columbine Exploration
Location: SE-NE Section 16, T38S-R24E
- d. Well Name: Alkali Point Unit No. 1-9
Operator: E.P. Operating Co.
Location: NE-SW Section 9, T38S-R24E

3. Location of Existing Wells: Continued

e. Well Name: Oles-Federal No. 1
Operator: Davis Oil
Location: SE-NW Section 15, T38S-R24E

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be neutral.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

The water source to be used to drill this well is Gore's Pond located North 531' & West 1810' from the west quarter corner in section 1, T38S-R24E, San Juan County. Water users claim No. 09 - 156; application No. 23462; Certificate No. 7854.

11/4/87 (as per map, water right, need temporary change from irrigation to drilling.)

6. Source of Construction Material:

Pad Construction material will be obtained from native materials accumulated during construction.

7. Methods of Handling Waste Disposal:

The reserve pit will be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash cage will be used to contain trash accumulated during operations. The road and pad will be kept litter free.

A burning permit will be obtained from the San Juan County Sherriif (801) 587-2237 if trash burning is to occur between May 1 and October 31.

Produced waste water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted.

8. Ancillary Facilities:

Camp facilities will not be required. Temporary trailers will be moved on the house the tool pusher, company personnel and the mud logger.

9. Well Site Layout: See attached Layout

The location to be constructed is the "Alternate" as described at the onsite. The reserve pit will be located on the west side.

The top 4 inches of soil material will be removed from the location and sotckpiled separate from the trees on the west side.

Access to the well pad will be from the east.

10. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash cage and will then be hauled to the nearest sanitary land fill.
- b. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

10. Reclamation: continued

- c. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- d. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.
- e. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- f. Seed will be broadcast between October 1 and February 28 as prescribed by the state. A harrow or similar implement will be dragged over the area to assure seed cover.
- g. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas.
- h. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the re-clamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface Ownership: State of Utah

Mineral Ownership: State of Utah

12. Other Information:

A cultural resource survey clearance was granted. The survey report will be submitted to the State of Utah.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts.

13. Lessee's or Operators Representatives and Certification:

Operators Representative:

Jack L. Sledge
Regional Drilling Manager

And

M.E. (Dusty) Kinchen
Senior Drilling Engineer

For

E.P. Operating Company
7800 Stemmons Frwy, Ste 500
Dallas, Tx 75247

Phone: 214/630-8711

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which currently exist, that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by

E.P. Operating Company

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10-28-87
Date

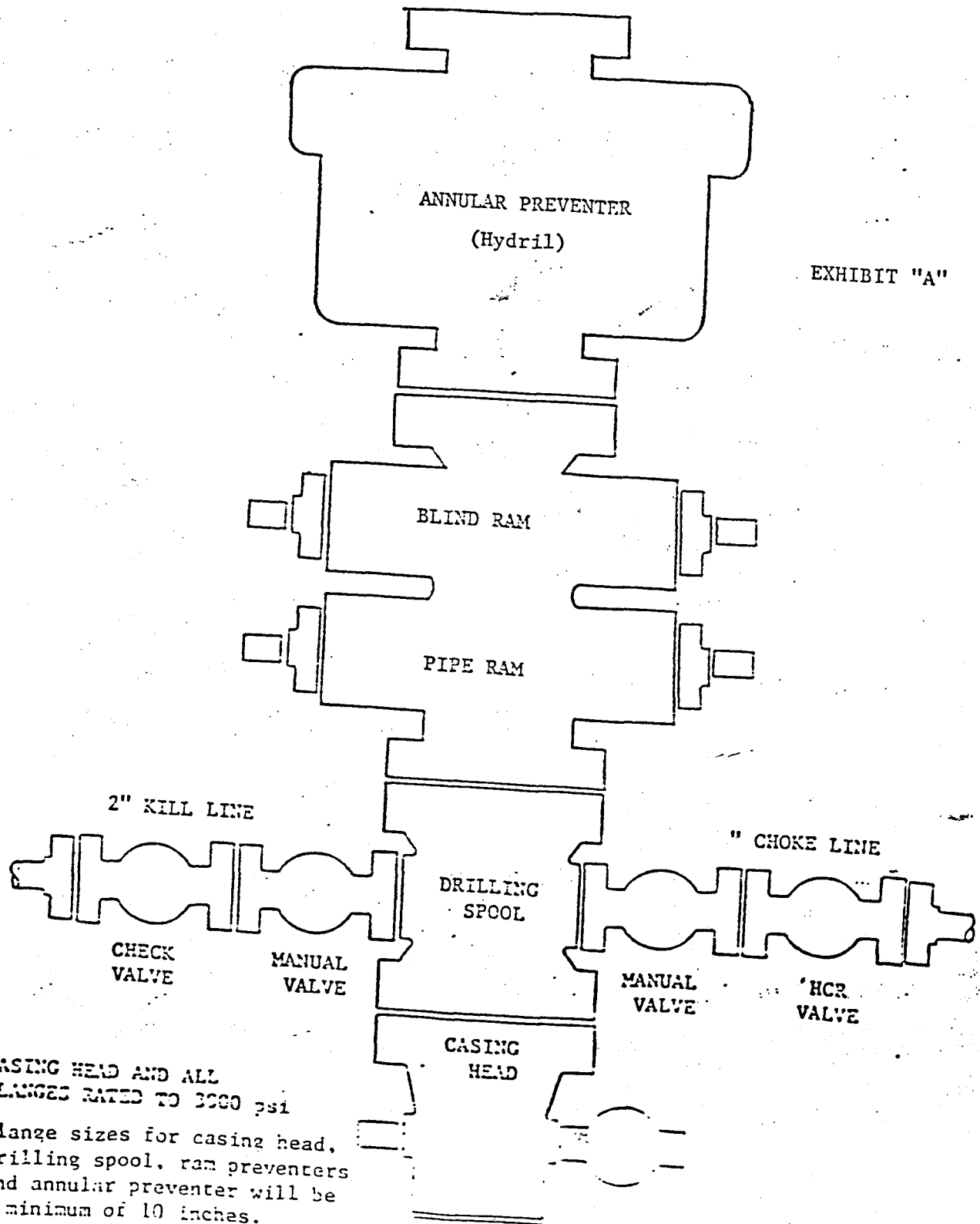
M.E. Kinchen
M.E. Kinchen
Senior Drilling Engineer

ON-SITE:

DATE: October 9, 1987

MEK/cw
10-27-87

ENSERCH EXPLORATION, INC
MINIMUM REQUIREMENTS FOR BLOW-OUT PREVENTION EQUIPMENT
3000 psi W. P.



MINIMAL REQUIREMENTS FOR CHOKE MANIFOLD

3000 psi W. P.

EXHIBIT "A" Continued

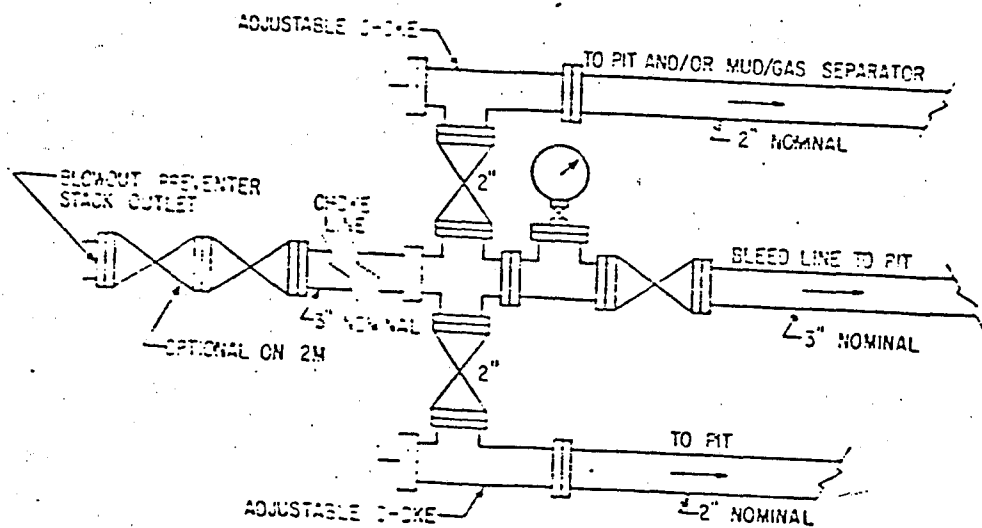
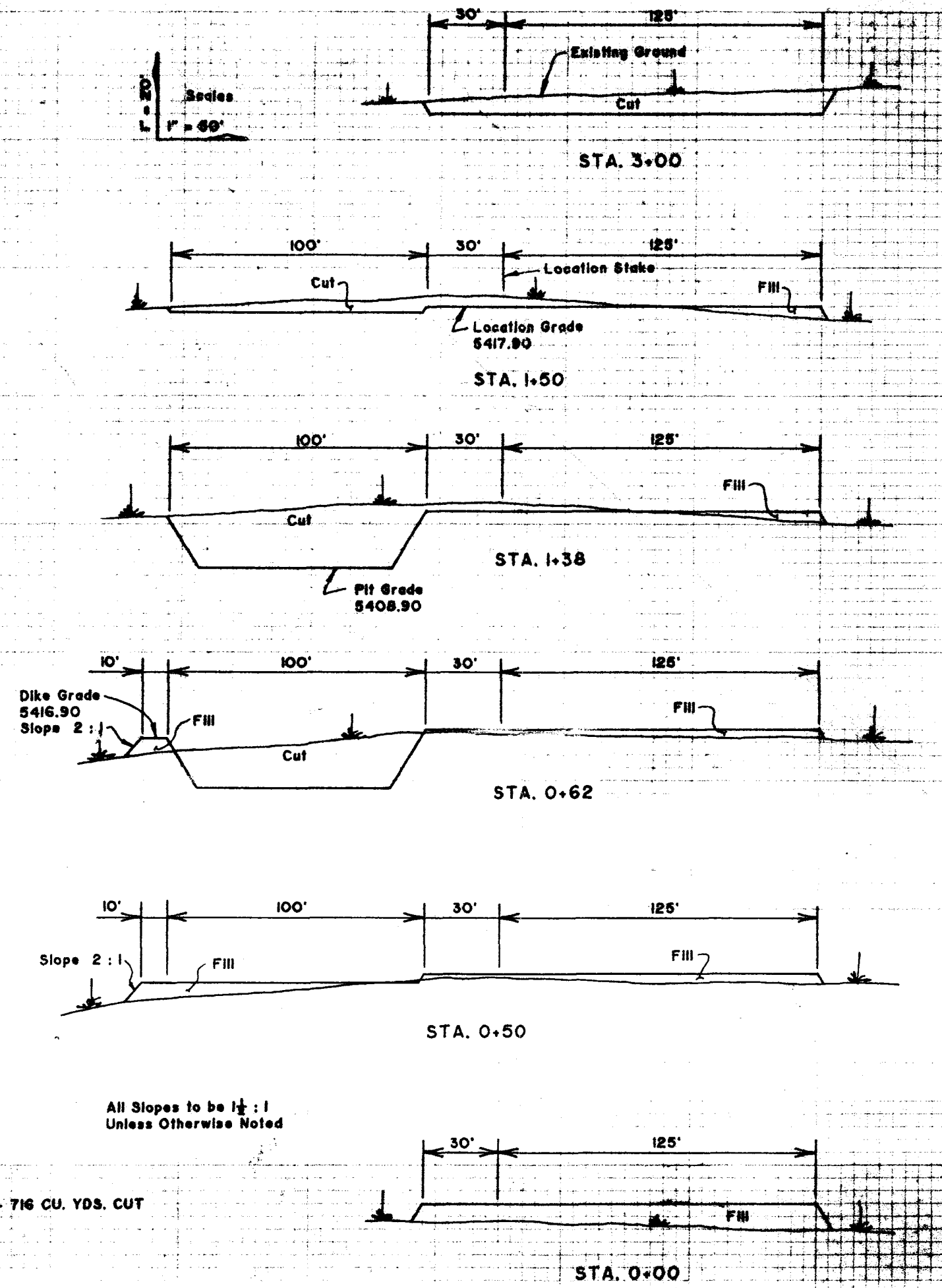
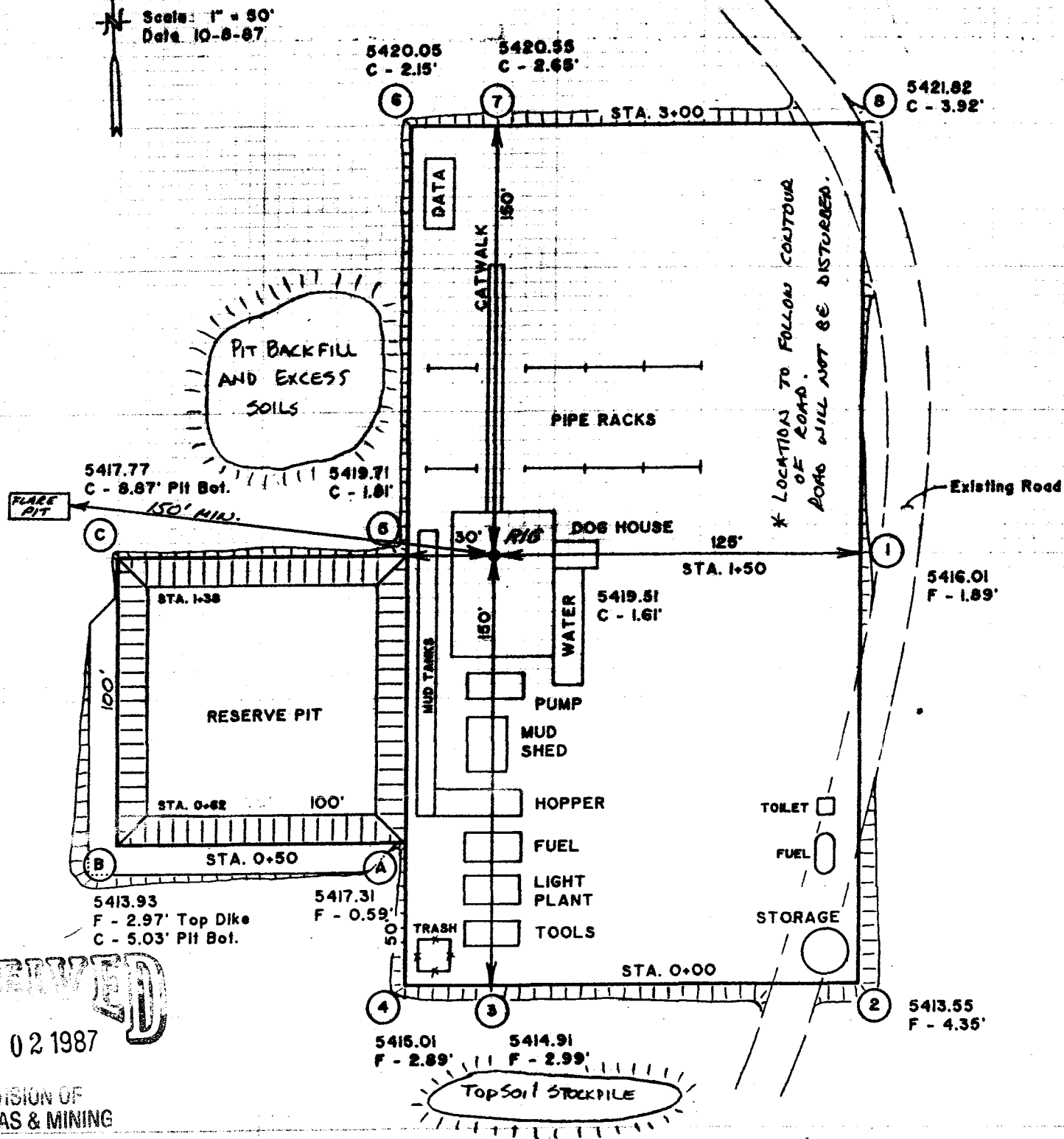


FIG. 3.A.1
TYPICAL CHOKE MANIFOLD ASSEMBLY
FOR 2M AND 3M RATED WORKING
PRESSURE SERVICE - SURFACE INSTALLATION

E.P. OPERATING CO.
ALKALI POINT STATE #1-16
 SECTION 16, T 38 S, R 24 E, S.L.S. & M.



RECEIVED
 NOV 02 1987
 DIVISION OF
 OIL, GAS & MINING

<u>APPROXIMATE YARDAGES</u>		<u>FILL</u>		EXCESS SOIL - 716 CU. YDS. CUT
<u>CUT</u>		<u>FILL</u>		
6" TOPSOIL STRIPPING - 1222 Cu. Yds.		1427 Cu. Yds.		
PIT VOLUME (Below Dike Grade)		Unbalance After 20% Compaction		
2295 Cu. Yds.		3086 Cu. Yds. Cut		
REMAINING LOCATION CUT - 1282 Cu. Yds.		To Be Used For Topsoil		
TOTAL CUT - 4799 Cu. Yds.		And Pit Backfill		
		(1/4 Pit Vol.)		

DIVISION OF
OIL, GAS & MINING

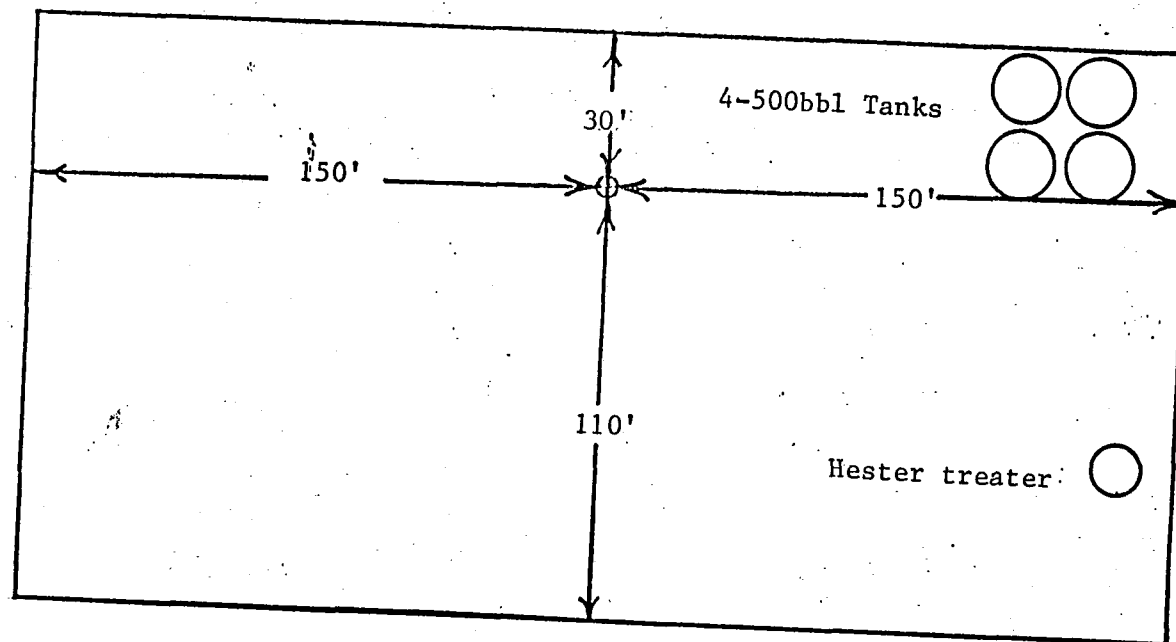
NOV 02 1987

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LOCATION OF PRODUCTION FACILITIES
E.P. OPERATING COMPANY

Alkali Point Unit No.1-16

scale: 1"=50'

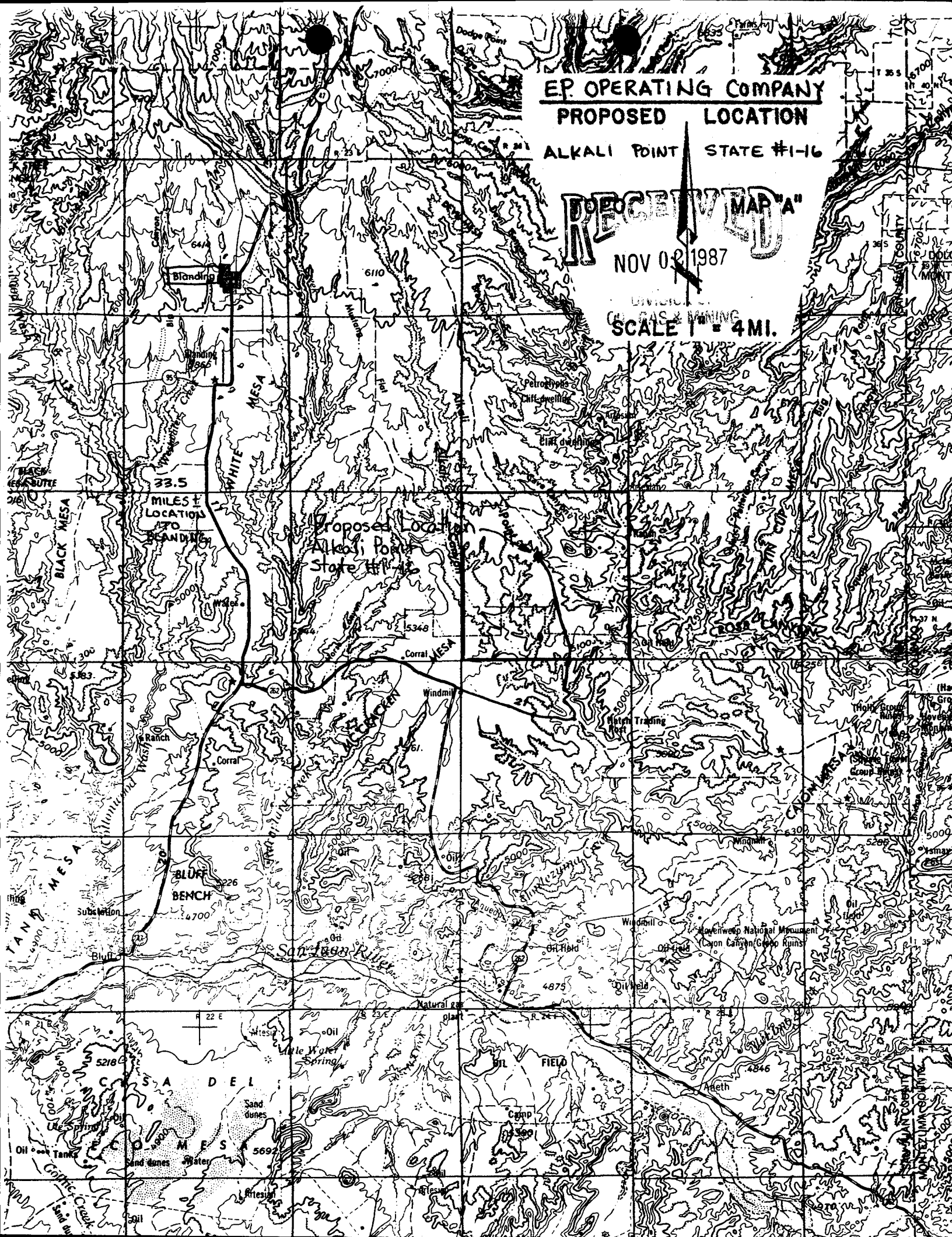


EP OPERATING COMPANY
PROPOSED LOCATION

ALKALI POINT STATE #1-16

RECEIVED MAP "A"
NOV 02 1987

SCALE 1" = 4 MI.



E.P. OPERATING COMPANY

PROPOSED LOCATION

ALKALI POINT STATE #1-16

RECEIVED MAP "B"
NOV 07 1987

DIVISION OF
OIL, GAS & MINING

SCALE 1" = 1 MILE

PROPOSED
LOCATION
ALKALI POINT
STATE #1-16

33.5 MILES ±
BLANDING, UTAH
TO LOCATION SITE

THEN 8.5 MILES TO HWY. 47
THEN 14.3 MILES TO
BLANDING, UTAH

4.5 MILES

M C C R A C K E N

M E S A

DRILLING LOCATION ASSESSMENT
State of Utah
Division of Oil, Gas & Mining

OPERATOR: E.P. OPERATING COMPANY WELL NAME: ALKALI POINT STATE 1-16
QTR/QTR: NENE SECTION: 16 TWP: 38 SOUTH RANGE: 24 EAST
COUNTY: SAN JUAN FIELD: HATCH 1033' F N L 1067' F E L
SFC OWNER: STATE LEASE #: ML-40406
SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL
INSPECTOR: CHIP HUTCHENSEN DATE & TIME: 10-09-87; 10:15a
PARTICIPANTS: WILLIAM MOORE, DOGM; BOB SUTHERLAND, SUTHERLAND BROS.; FLOYD PATTERSON,
PERRY & McDONALD CONST.; DUSTY KINCHER, E.P.OPERATING.

REGIONAL SETTING/TOPOGRAPHY: BLANDING BASIN OF THE COLORADO PLATEAU. 6 MILES NORTH OF
HATCH TRADING POST ON NORTH-SOUTH RUNNING EROSIONAL MESA REMENANTS OF THE GREAT SAGE
PLAIN.

LAND USE

CURRENT SURFACE USE: OPEN RANGE GRAZING.

PROPOSED SURFACE DISTURBANCE: ABOUT 155X300' PAD WITH 100X100X10' PIT EXTENSION WEST OF
PAD.

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: SAGE, CEDAR, NATIVE GRASSES, RABBITS, DEER, BIRDS, MORMON TEA, YUCCA.

ENVIRONMENTAL PARAMETERS

GEOLOGY

SOIL TYPE AND CHARACTERISTICS: REDDISH SANDY SILT ON BEDROCK OUTCROP. THREE FEET TO
TO LESS THAN 6" IN AREAS.

SURFACE FORMATION & CHARACTERISTICS: DAKOTA YELLOWISH BROWN SANDSTONE.

EROSION/SEDIMENTATION/STABILITY: STABLE AND FAIRLY RESISTANT TO EROSION.

SUBSURFACE GEOLOGY

OBJECTIVE(S)/DEPTH(S): ISMAY-5930'; DESERT CREEK 6170'

ABNORMAL PRESSURES - HIGH AND LOW: DESERT CREEK MAY BE OVERPRESSURED OIL ZONE;
AKAH MAY BE OVERPRESSURED SALTWATER ZONE.

CULTURAL RESOURCES/ARCHAEOLOGY: NEED ARCH. CLEARANCE ON STATE LANDS.

SOME FLOAT OBSERVED IN AREA TO SOUTHEAST.

WATER RESOURCES: INTERMITTENT DRAINAGE AT SOUTHWEST CORNER OF PIT. GROUND WATER GREATER
THAN 30'. NO WATER WELLS KNOWN IN AREA.

RESERVE PIT

CHARACTERISTICS: 100X100X10' PIT IN ROCK OUT CROP OF SANDSTONE.

LINING: 2#/SQ.FT. COMMERCIAL BENTONITE MINIMUM WITH INSPECTION BEFORE PLACING FLUIDS IN
PIT.

MUD PROGRAM: 0-2200' FRESH WATER/GEL; 2200-4500' FRESH WATER/GEL; 4500-6350' FRESHWATER/
SALT WATER.

DRILLING WATER SUPPLY: GORE'S POND WATER USERS CLAIM No. 09-156; APPLICAITON No. 23462
CERTIFICATE No. 7854.

OTHER OBSERVATIONS: PICTURE #22-24 BY W. MOORE. WILL HAVE TO BLAST PIT.

FLOAT POTTERY SEEN ABOUT 100'SW OF SITE.

STIPULATIONS FOR APD APPROVAL: LINE PIT WITH MINIMUM 2#/SQ.FT. COMMERCIAL BENTONITE
MAKING SURE FRACTURES FROM BLASTING ARE SEALED. NOTIFY DIVISION 48HR PRIOR TO PLAC-
ING FLUIDS IN PIT TO ENABLE OPPORTUNITY TO INSPECT LINER.

ATTACHMENTS

CONFIDENTIAL

110901

OPERATOR E. P. Operating Co. DATE 11-4-87

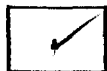
WELL NAME Alkali Point State 1-16

SEC NE NE 16 T 38S R 24E COUNTY San Juan

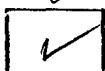
43-037-31361
API NUMBER

State
TYPE OF LEASE

CHECK OFF:



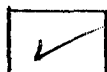
PLAT



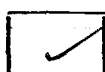
BOND



NEAREST
WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well on Sec. 16.

Need water permit

Exception requested.

CONFIDENTIAL

PERIOD

EXPIRED

ON 9-29-89

APPROVAL LETTER:

SPACING:



R615-2-3

UNIT



R615-3-2



CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

1- Water

2- State history

3- The reserve pit shall be lined with a minimum of 2 lbs. per sq. ft. of dry commercial bentonite. The operator shall ensure that fractures remaining from blasting of pit are adequately sealed with lining material.

0218T 4. The operator shall notify the Division 48 hours prior to placing fluid in pit to allow inspection of liner. Contact Chip Hutchinson, Moab, PH 259-8151.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 6, 1987

E. P. Operating Company
7800 Stemmons Freeway, Suite 500
Dallas, Texas 75247

Gentlemen:

Re: Alkali Point State 1-16 - NE NE Sec. 16, T. 38S, R. 24E
1033' FNL, 1067' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. Prior to any ground-disturbing activity on state lands or lands owned or controlled by the state or its subdivisions, a cultural resource clearance report must be filed with and approved by the Division of State History, phone (801) 533-4563. A list of acceptable archaeological contractors is available from the Division of State History.
3. The reserve pit shall be lined with a minimum of 2 lbs. per sq. ft. of dry commercial bentonite. The operator shall ensure that fractures remaining from blasting of pit are adequately sealed with lining material.
4. The operator shall notify the Division 48 hours prior to placing fluids in the pit to allow inspection of liner. Contact Chip Hutchinson, Moab, Phone 259-8151.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

Page 2
E. P. Operating Company
Alkali Point State 1-16
November 6, 1987

2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31361.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: State Lands & Forestry
Branch of Fluid Minerals
D. R. Nielson

WATER PERMIT OK

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31361

NAME OF COMPANY: E.P. OPERATING COMPANY

WELL NAME: ALKALI POINT STATE #1-16

SECTION NENE 16 TOWNSHIP 38S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR EXETER

RIG # 68

SPUDDED: DATE 6/14/88

TIME 10:00 p.m.

How ROTARY

DRILLING WILL COMMENCE

REPORTED BY DAVID WILSON

TELEPHONE # 303-565-5007

DATE 6/15/88 SIGNED TAS

ENTITY ACTION FORM - DOGM FORM 6

RECEIVED
JUN 23 1988

DIVISION OF
OIL, GAS & MINING

OPERATOR E.P. Operating Company
ADDRESS 7800 Stemmons - Ste.500
Dallas, TX 75247

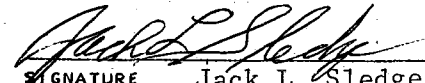
OPERATOR CODE N 0400
PHONE NO. 214,630-8711

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10882	43-037-31361	Alkali Point State No.1-16	NENE	16	38S	24E	San Juan	6-14-88	
COMMENTS: State Lease Proposed Zone-Akah Field-Hatch Not in a Unit (Only well in section 16) Assign new entity number 6/24/88. JCR											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)
B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)


SIGNATURE Jack L. Sledge
Regional Drilling Manager
TITLE: _____ DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or to change the location of a well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
JUL 22 1988

5. LEASE DESIGNATION AND SERIAL NO.

State ML-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Alkali Point State

9. WELL NO.

#1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA

Sec. 16, T38S, R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

E P Operating Company (303) 831-1616

3. ADDRESS OF OPERATOR

1700 Lincoln St., Ste. #3600, Denver, CO 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

At surface

1033' FNL, 1067' FEL

14. API NUMBER

43-037-31361

15. ELEVATIONS (Show whether OF, RT, OR, etc.)

5422' GL, 5434' KB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

PULL OR ALTER CASING

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Progress Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On July 13, 1988 E P Operating Company began completion operations on the Alkali Point State #1-16.

1. Perforated Desert Creek formation from 6243'-6251', 4 SPF with 4" casing gun.
2. Broke down perforations with 500 gallons 15% HCL acid with additives dropping 48 balls. Flowed and swabbed back treating fluid. On last pull recovered a trace of oil.
3. Acidized perforations with 5000 gallons 28% HCL with additives and liquid nitrogen, forming 40-60 quality foam. Flowed and swabbed back treating fluid. Recovered approximately 10 BO with some gas.
4. Preparing to run pressure build-up.

18. I hereby certify that the foregoing is true and correct

SIGNED

Greg Benton

TITLE

Petroleum Engineer

DATE

7/19/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JUL 28 1988

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Alkali Point State No. 1-16 43-037-31361
Operator EP Operating Company ^{MURKIN} Address 7800 Stemmons Frwy, Ste 500
Dallas, TX 75247
Contractor Exeter ^{BJF} Address 1670 Broadway, Ste 3400
Denver, Co 80217
Location NE 1/4 NE 1/4 Sec. 16 T. 38S R. 24E County San Juan

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	No water encountered			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

State ML-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Alkali Point State

9. WELL NO.

#1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA

Sec. 16, T38S, R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

E P Operating Company (303) 831-1616

3. ADDRESS OF OPERATOR

1700 Lincoln St., Ste. #3600, Denver, CO-80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1033' FNL & 1067' FEL

14. API NUMBER

43-037-31361

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5422' GL, 5434' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On July 13, 1988 E P Operating Company attempted to complete the Alkali Point State #1-16 in the Desert Creek formation from 6243'-6251'. After reviewing the post stimulation build-up data, E P Operating Company requests approval to abandon this well as follows:

1. Set CIBP @ 6230'± with 50' cement on top.
2. Perforate @ 2250' and pump 100' cement plug, both inside and out (or if 15.5 casing is pulled, set 100' cement plug 50' in and 50' out of pulled pipe).
3. Place 100' plug @ surface.
4. Cut off casing, set dry hole marker and reclaim location.

18. I hereby certify that the foregoing is true and correct

SIGNED

Greg Benton

TITLE Petroleum Engineer

DATE 8/30/88

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 9-12-88
BY: [Signature]

OPERATOR: E P Operating Company
WELL NAME & NO: Alkali Point State #1-16
FIELD Wildcat
COUNTY San Juan STATE Utah
DATE 8/30/88 *CB*

	CASING:			
Size	8 5/8"	5 1/2"		
Weight	24#	15.5#		
Grade	K-55	K-55		
Thread	STC	LTC		
Depth	2200'	6314'		

2200'

Pumped 580 sacks class "B". Circulated cement to surface.

Top cement 2970'

3528' DV Tool. Pumped 415 sacks of 50/50 POZ

Top cement 5523'

6243'

Perforate Desert Creek with 4" casing gun @ 4 SPF.

6251'

6314'

Pumped 210 sacks of class "H".

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
OCT 12 1988

5. LEASE DESIGNATION AND SERIAL NO.

State ML-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Alkali Point State

9. WELL NO.

#1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 16, T38S, R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

E P Operating Company (915) 682-9756

3. ADDRESS OF OPERATOR

*6 Desta Drive, #5250, Midland, TX 79705-5510

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

See also space 17 below.
At surface

1033' FNL, 1067' FEL

14. API NUMBER 31361

43-037-3161

15. ELEVATIONS (Show whether DF, WT, CR, etc.)

5422' GL; 5434' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☒
☐
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set CIBP @ 6224'. Placed a 6 sack 50' cement plug @ 6164'-6214'. Cut 5½" casing at 2000'. Could not pull casing, and could not circulate. Placed a 34 sack 300' Class "B" cement plug from 1950' to 2250'. Placed an 11.3 sack 100' Class "B" cement plug from surface to 100'. Dug out around wellhead. Cut off casing 3' below ground level. Installed dry hole marker.

The reclamation of the location will be performed in the near future.

*Please note the change of address as stated above.

18. I hereby certify that the foregoing is true and correct

SIGNED

Gerald W. Gasch
Gerald W. Gasch

TITLE

Sr. Production Supervisor

DATE

10/7/88

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒
 b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

2. NAME OF OPERATOR

EP Operating Company

3. ADDRESS OF OPERATOR

6 Desta Drive, Suite 5250, Midland, TX 79705-5510

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1033' FNL & 1067' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

43-037-31301

DIVISION OF
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

State ML-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Alkali Point State

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 16, T38S, R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPOOLED 6/14/88 16. DATE T.D. REACHED 6/29/88 17. DATE COMPL. (Ready to prod.) -- 18. ELEVATIONS (OF. RES. RT. OR, ETC.)* 5434' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6314' 21. PLUG. BACK T.D., MD & TVD 6279' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY Surface-6314'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* P&A Desert Creek 6243'-6251' 25. WAS DIRECTIONAL SURVEY MADE 1 1/4° @ 6306'

26. TYPE ELECTRIC AND OTHER LOGS RUN

Sonic/GR/Cal 2194'-Surf., DLL/MSFL/GR/SP/BHC 6315'-2200', LDT/CNL/GR 6315'-4900' No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	2200'	11"	580 sx. Class B to Surf.	- 0 -
5-1/2"	15.5#	6314'	7-7/8"	210 sx. Class H 1st stage	- 0 -
				415 sx. 50/50. Poz 2nd stage	- 0 -

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. FRICTION RECORD (Interval, size and number)

Desert Creek 6243'-51', 4 SPF w/4" csg. gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6243'-51'	500 gals. 15% HCL, 5000 gals. 28% HCL w/liquid N ₂ 40-60%

33. PRODUCTION

DATE FIRST PRODUCTION N/A		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD —————→	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE —————→	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Greg Boh

TITLE Petroleum Engineer

DATE 11/16/88

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a completed and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State agency. See Instructions on Items 22 and 24, and 33. Below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (dillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown). For depth measurements given in other spaces on this form and in any attachments items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38.	NAME	MEAS. DEPTH	TOP	TRON VERT. DEPTH
Upper Ismay	5939'		DST #1 5/30/60/120 IF 107 ISIP 281 FF 227 FSIP 428 Rec: 270' mud DST #2 50/30/70/140 IF 34 ISIP 872 FF 34 FSIP 2906 Rec: 30' O&HGCM 60' HGCM					
Desert Creek	6242'							

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
MICROFILM	
3-	FILE